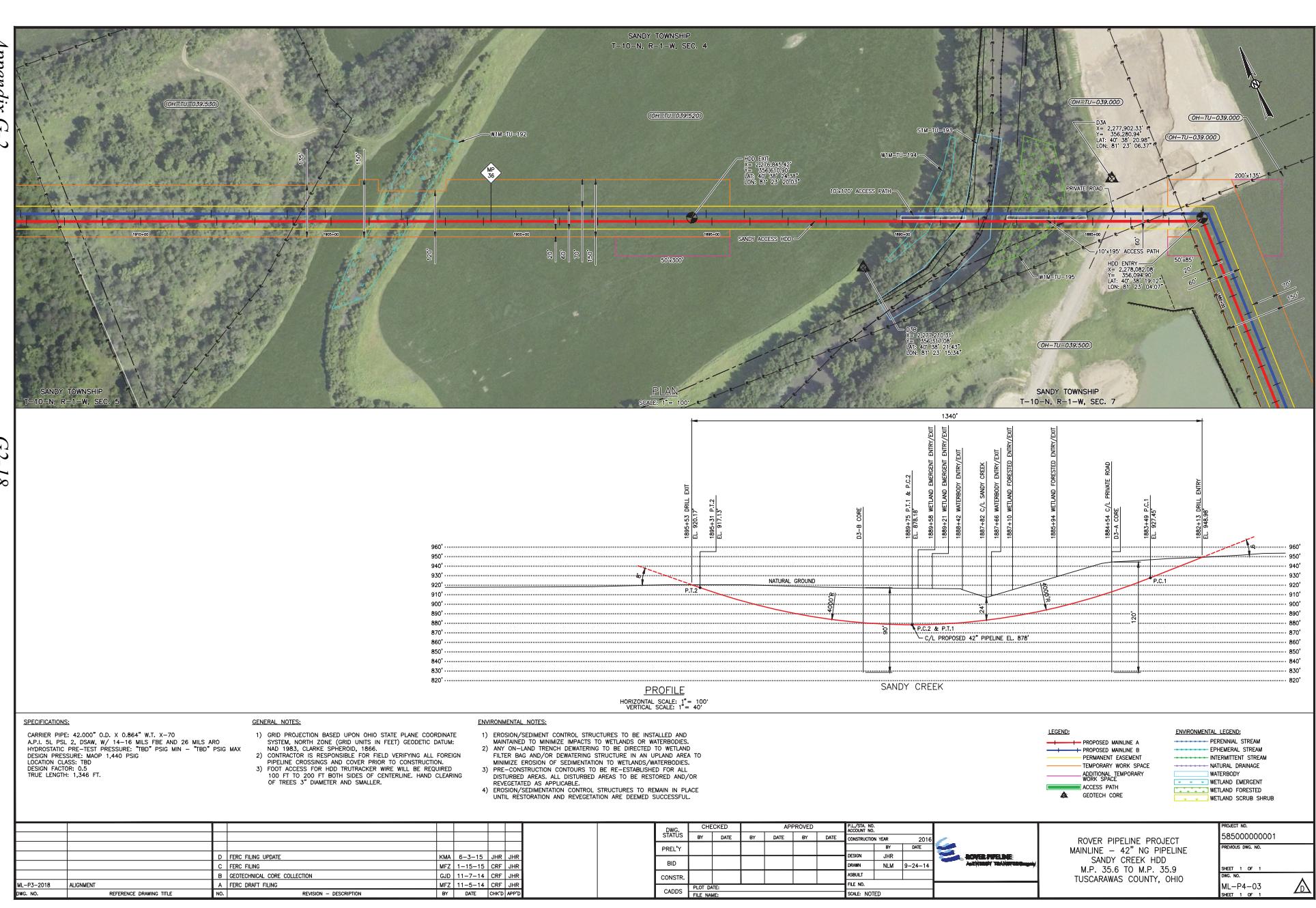
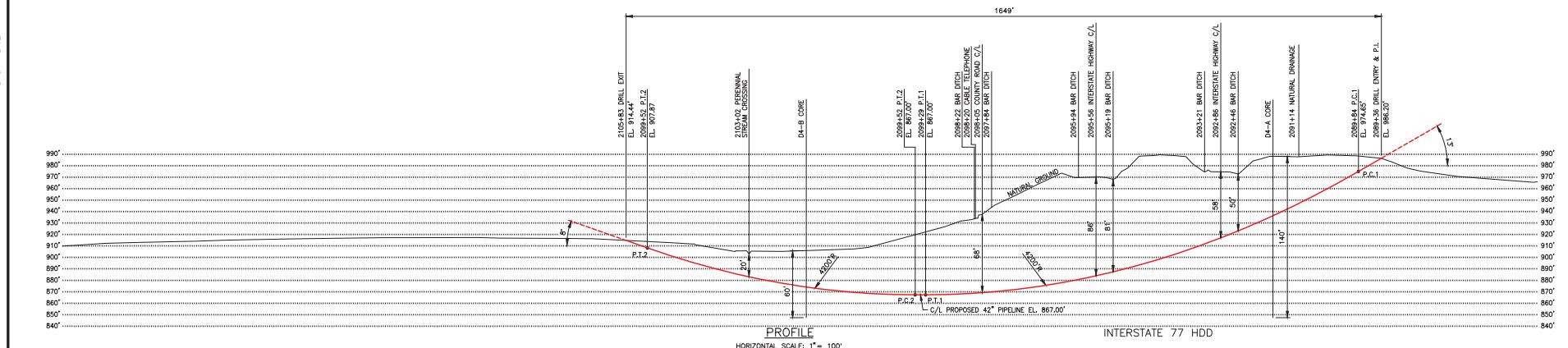


Appendix G-2

G2-18





SPECIFICATIONS:

GENERAL NOTES:

- 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNIT IN FEET) GEODETIC DATUM: NAD 1983 OHIO STATE PLANE, 1989
 - 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 - 3) FOOT ACCESS FOR HDD TRUTRACKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES

- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY DOWNSTREAM TREND DEWATERING IS TO BE DEDICATED TO WETLAND FILTER BAG AND DEWATERING STREAMS IN AN UPLAND AREA. MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

HORIZONTAL SCALE: 1"

		D FERC FILING UPDATE	KMA	6-3-15	JHR
		C FERC FILING	MFZ	1-15-15	CRF
		B GEOTECHNICAL CORE COLLECTION	GJD	11-7-14	CRF
ML-P3-2022	ALIGNMENT	A FERC DRAFT FILING	MFZ	11-5-14	CRF
DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE
				OKW	

DWG. STATUS	CHECKED		APPROVED			CONSTRUCTION YEAR BY DATE
	BY	DATE	BY	DATE	BY	
PRELIM						DESIGN JHR
BID						DRAWN KMA 9-18
CONSTR.						ASBUILT
CADDIS	PLOT DATE:		FILE NAME:		FILE NO. SCALE: NOTED	

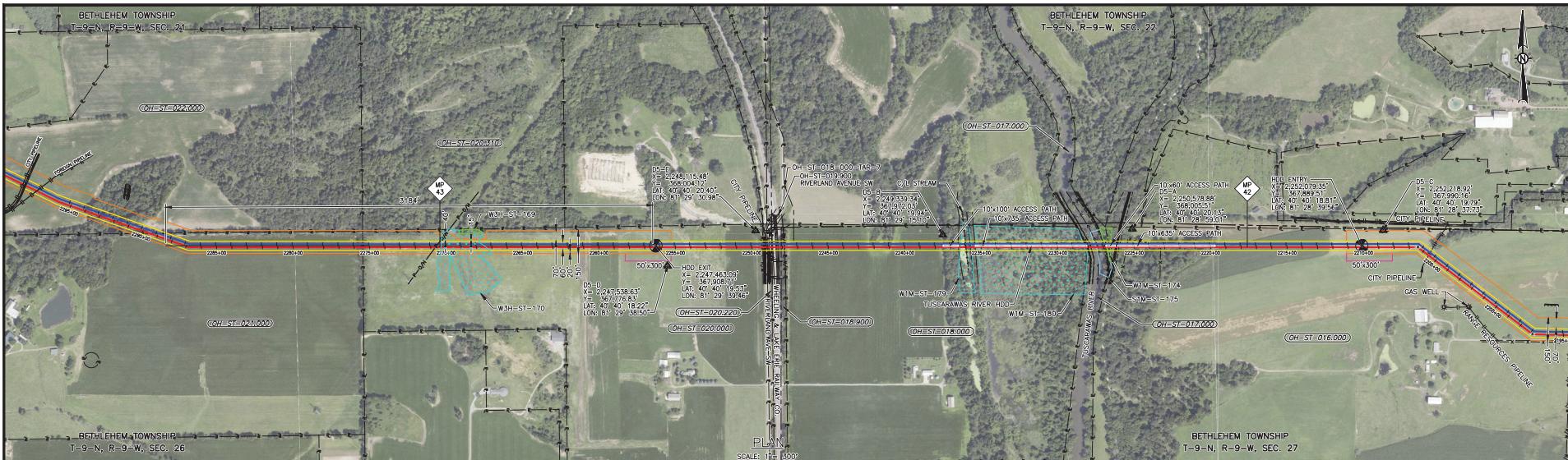


ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
INTERSTATE 77 HDD
M.P. 39.6 TO M.P. 39.9
STARK COUNTY, OHIO

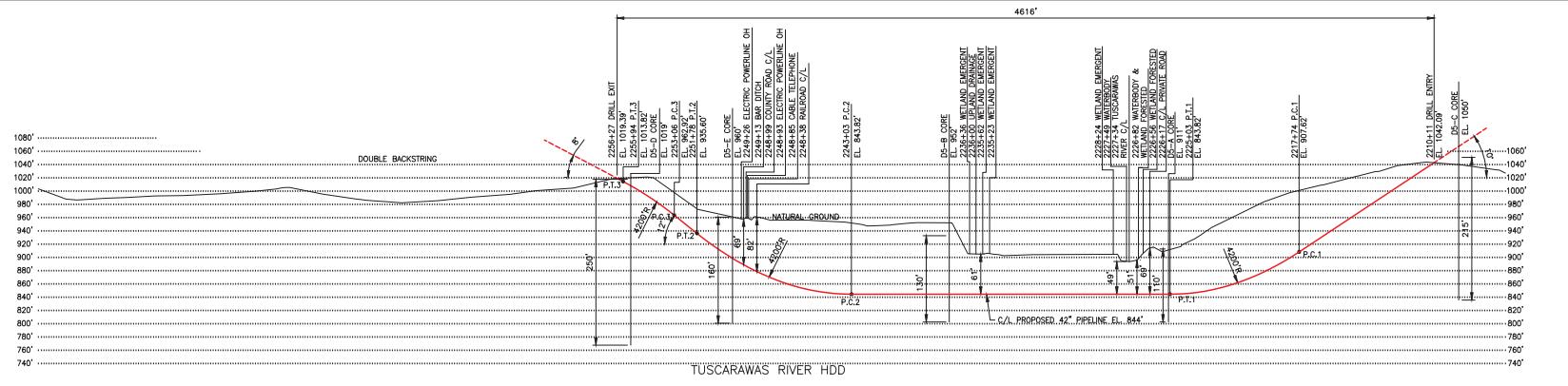
The legend consists of eight entries, each with a colored line segment followed by a text label. The labels are: PERENNIAL STREAM (blue), Ephemeral Stream (red), INTERMITTENT STREAM (green), NATURAL DRAINAGE (purple), WATERBODY (light blue), WETLAND EMERGENT (yellow), WETLAND FORESTED (orange), and WETLAND SCRUB SHRUB (pink).

D26-05-15 7:55 14139 14 KMA

Appendix G-2



G2-20



SPECIFICATIONS: _____ GENERAL NOTES: _____

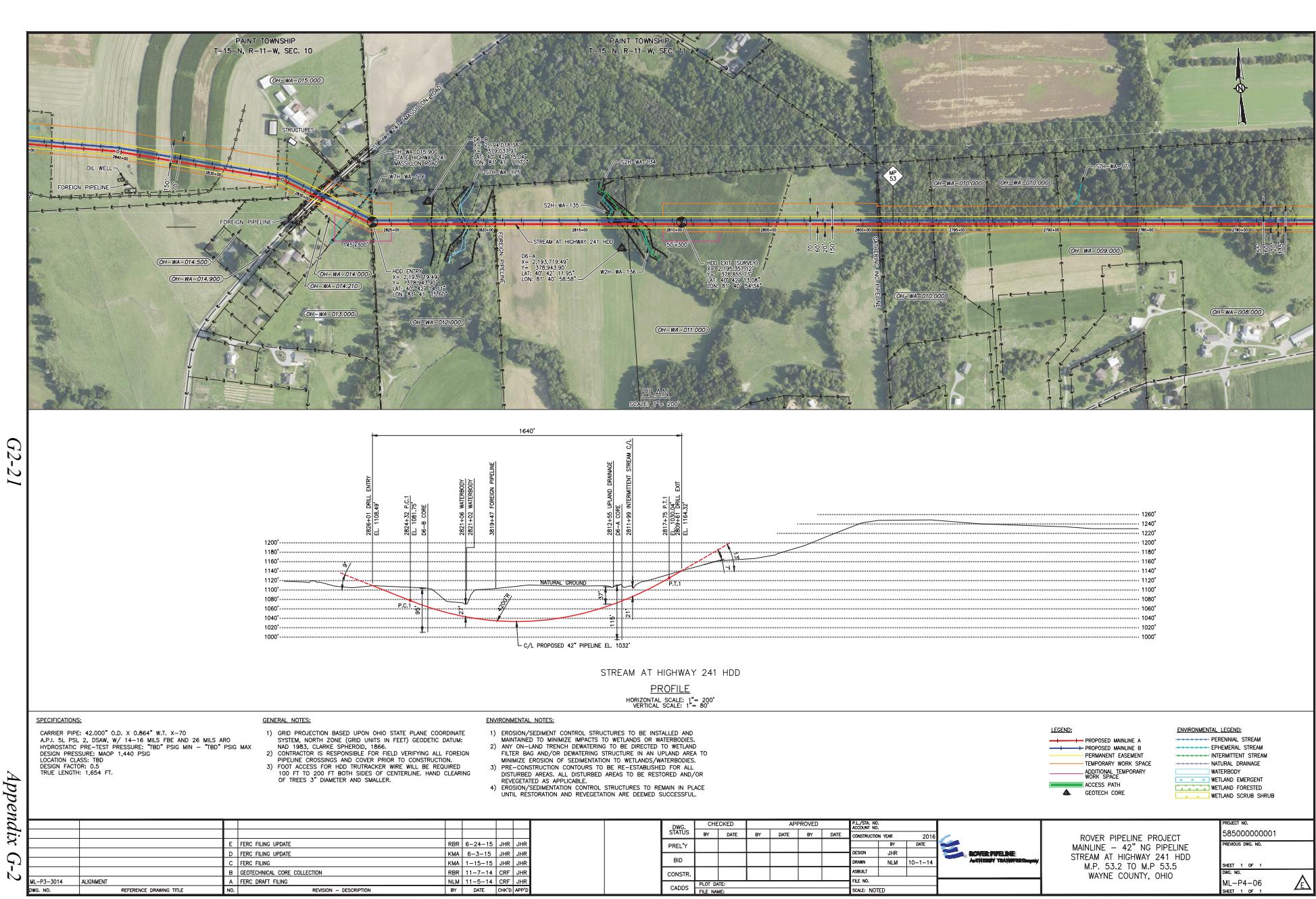
GENERAL NOTES:

- CARRIER PLATE: 42" x 0.02", 0.0 X, 0.846" WT, X-70
 A-P, 1.5 PL, 2PSL, DSAW, W-14 1/16 MILS FBE AND 40 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN TEST PRESSURE: 1,440 PSIG
 LOCATION CLASS: B
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 4,650 FT.

ENVIRONMENTAL NOTES

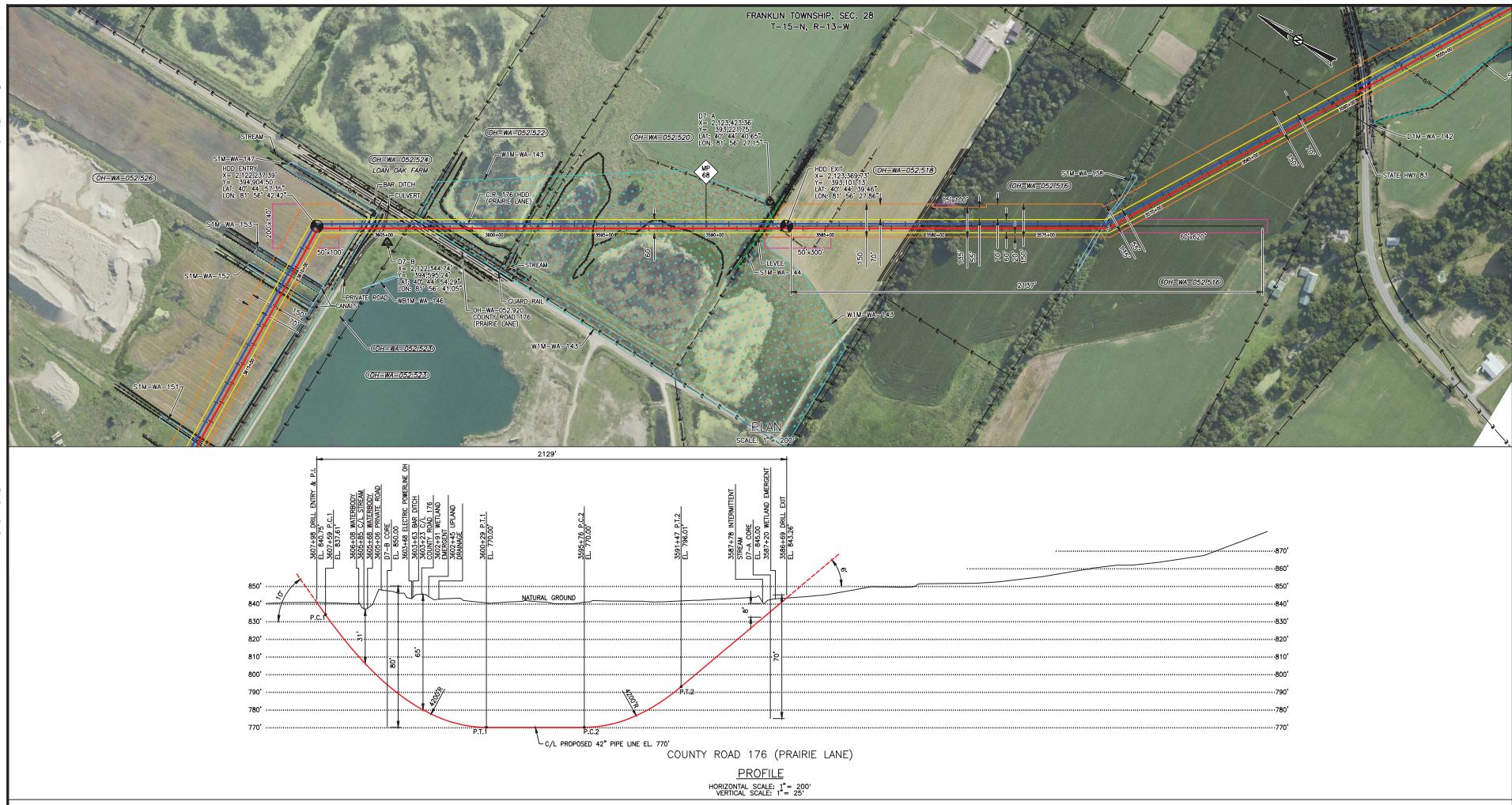
- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS ON WATERBODIES.
 - 2) ANY UPLAND TRENCH DEWATERING TO BE DISPERSED TO WETLAND FILTER BAG AND/OR DEMINERATING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

PROFILE



Appendix G-2

G2-22



**CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
API, SL PSL 2, DS/W, W/ 14-16 MILS FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAOP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 2,137 FT.**

GENERAL NOTES:

- 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866
 - 2) EROSION/SEDIMENT CONTROL FIELDS FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 - 3) FOOT ACCESS FOR HDG GUIDED WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE, HAND CLEARING OF TREES 3' DIAMETER AND SMALLER.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 5) ANY ON-LAND TRENCH Dewatering WILL BE DIRECTED TO WETLANDS OR WATERBODIES. Dewatering Structures WILL BE REMOVED TO MINIMIZE EROSION OR SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 6) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS WILL BE RESTORED AND/OR REVEGETATED.
 - 7) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

ENVIRONMENTAL NOTES:

- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER PLANT AND NOT DIRECTED TO A STREAM, CREEK, OR RIVER TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVETTED AS NECESSARY.
 - 4) EROSION/SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVETEMENT ARE DEEMED SUCCESSFUL.

PROFILE

ML-P3-3029	ALIGNMENT	D FERC F C FERC F B GEOTOP A FERC F
DWG. NO.	REFERENCE DRAWING TITLE	NO.

					DWG STATUS	CJ BY
REVISION	DESCRIPTION	BY	DATE	CH/C APP'S	PREL'Y	BID
LING UPDATE	LEW 6-15-15 CRF JHR					
LING	MFTZ 1-15-15 CRF JHR					
INITIAL CORE COLLECTION	CUD 11-7-14 CRF JHR					
LING	MFTZ 11-5-14 CRF JHR					
					CONSTR.	
					CADD'S	PLT FILE

CHECKED		APPROVED		FILE/STL NO. CONTRACT NO.	CONSTRUCTION YEAR	2016	 SOVEREIGN PIPELINE AUTHORITY SERVICES
DATE	BY	DATE	BY	DATE	BY	DATE	
				DAYTON	JHR		
				ORHINI	KWA	9-6-14	
				ASBILIT			
DATE:		FILE NO.:					
NAME:		SCALE:	NOTED				

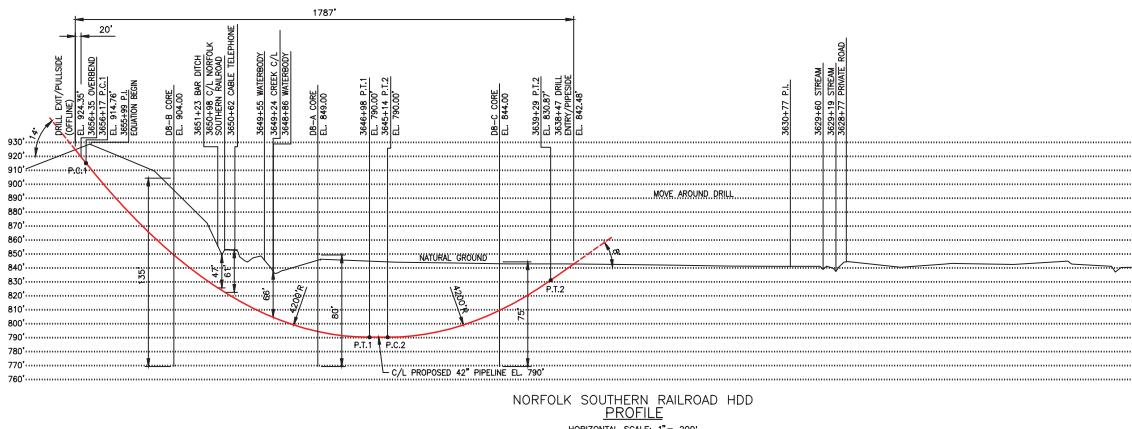
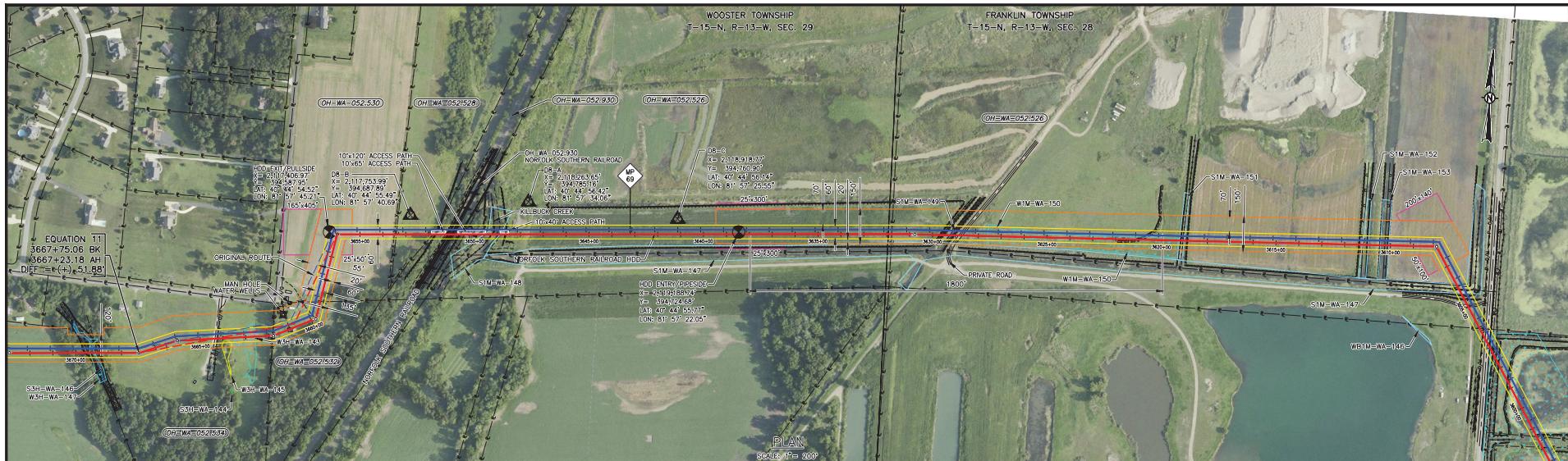
ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
PRAIRIE LANE/C.R. 176 HDD
M.P. 67.9 TO M.P. 68.3
WAYNE COUNTY, OHIO

The legend consists of seven entries, each with a colored line icon followed by its name:

- PERENNIAL STREAM (blue line)
- EPHEMERAL STREAM (red line)
- INTERMITTENT STREAM (green line)
- NATURAL DRAINAGE (purple line)
- WATERBODY (light blue line)
- WETLAND EMERGENT (yellow line with downward arrows)
- WETLAND FORESTED (yellow line with upward arrows)

The legend identifies several key features: PROPOSED MAINLINE A (red line), PROPOSED MAINLINE B (blue line), PERMANENT EASEMENT (yellow line), TEMPORARY WORK SPACE (orange line), ADDITIONAL TEMPORARY WORK SPACE (pink line), ACCESS PATH (green line), and GEOTECH CORE (black triangle).

25 KUA



SPECIFICATIONS:

CURVE PIPE: 42,000" O.D. X 0.964" WT. X-70
API-L SL PSL 2, 25NW, W/ 14-16 MILS. FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAOP 1,440 PSIG
DESIGN CLASS: TBD
DESIGN FACTOR: 0.85
TRUE LENGTH: 1,800 FT.

GENERAL NOTES:

- 1) PRODUCTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET). GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MEET EROSION CONTROL REQUIREMENTS OF THIS DRAWING.
- 3) FOOT ACCESS FOR HDD GUIDED WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.
- 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

ENVIRONMENTAL NOTES:

- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- 2) ANY ON-LAND DRENAGE DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MEET EROSION CONTROL REQUIREMENTS OF THIS DRAWING.
- 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

EWS. NO.	ALIGNMENT	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHK'D APP'D	DWG STATUS	CHECKED BY	DATE	APPROVED BY	DATE	FILE STA. NO.	ACCOUNT NO.	CONSTRUCTION YEAR	
								PREL'Y	BID	CONSTR.	CADD'S	PLOT DATE:	FILE NAME:	SCALE:	NOTED	2016
D	FERC FILING UPDATE				LRW	6-3-15	CRF JHR									
C	FERC FILING				MFTZ	1-15-15	CRF JHR									
B	GEOTECHNICAL CORE COLLECTION				RBR	11-7-14	CRF JHR									
A	FERC FILING				NLM	11-5-14	CRF JHR									
ML-P3-3030																

PROJECT NO. 585000000001
PREVIOUS DWG. NO.

ML-P4-08

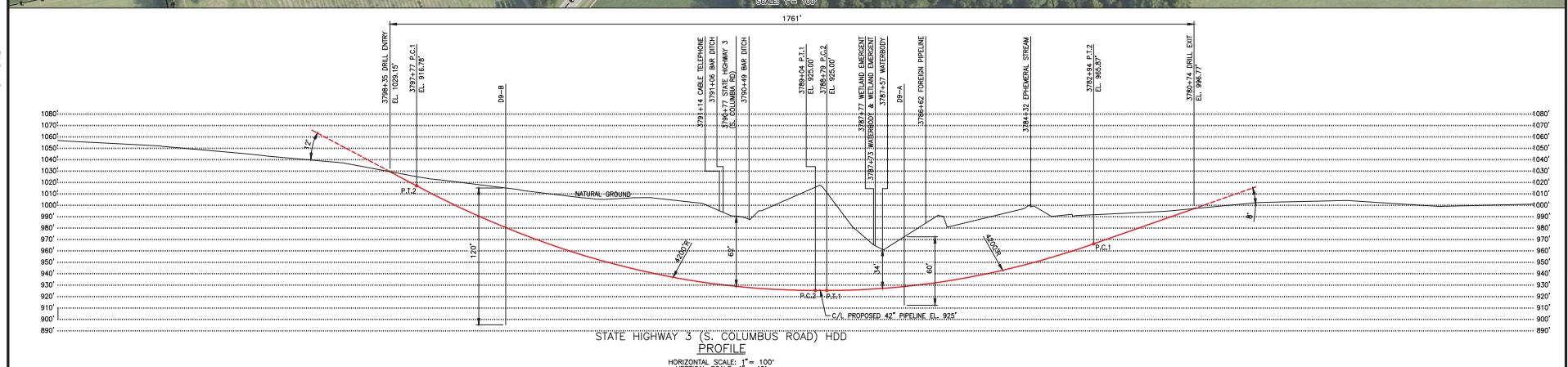
WAYNE COUNTY, OHIO

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- ADDITIONAL TEMPORARY WORK SPACE
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

Appendix G-2

G2-24



10

CARRIER PIPE: 42,000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAOP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,773 FT.

- GENERAL NOTES:**

 - 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRIDUNITS IN FEET) GEODETIC DATUM: NAD 1983 CLARKE 1866.
 - 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 - 3) FOOT ACCESS FOR HDU TRUTRACKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:

 - 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS/WATERBODIES.
 - 2) NO DISTURBANCE OR EXCAVATION TO BE DONE IN WETLANDS AND FILTER BARS AND/OR DEMINERIALIZED STRUCTURES IN AN UPLAND AREA. MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS SOON AS POSSIBLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO BE REMOVED IN PLACE AS SOON AS POSSIBLE AND REVEGETATED AFTER REMOVAL.

第六章 計算機應用

- ENVIRONMENTAL NOTES:**

 - 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND/OR Dewatering STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR PROVIDED WITH AS MUCH NATURAL GROWTH AS POSSIBLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL REFORESTATION AND REVEGETATION ARE DEFINITELY SUCCESSFUL.

		D FERC FILING UPDATE		KRMJ	E-3-15	JRR JHE
		C FERC FILING		KRMJ	1-15-15	CRF JHE
		B GEOTECHNICAL CORE COLLECTION		RSPH	11-7-14	CRF JHE
ML-P3-3033	ALIGNMENT	A FERC DRAFT FILING		NM M	11-5-14	CRF JHE
DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CRF'S APP

DWG. STATUS	CHECKED		APPROVED		FILE/STA. NO.	CONSTRUCTION PERIOD	2016
	BY	DATE	BY	DATE			
PREL'Y					DESIGN	JHR	
BID					DRWNS	KMA	9-9-14
CONSTR.					ASB/LAT		
					FILE NO.		
CADD'S	PLT'D. DATE				SCALE	NOTED	
	FILE NAME						

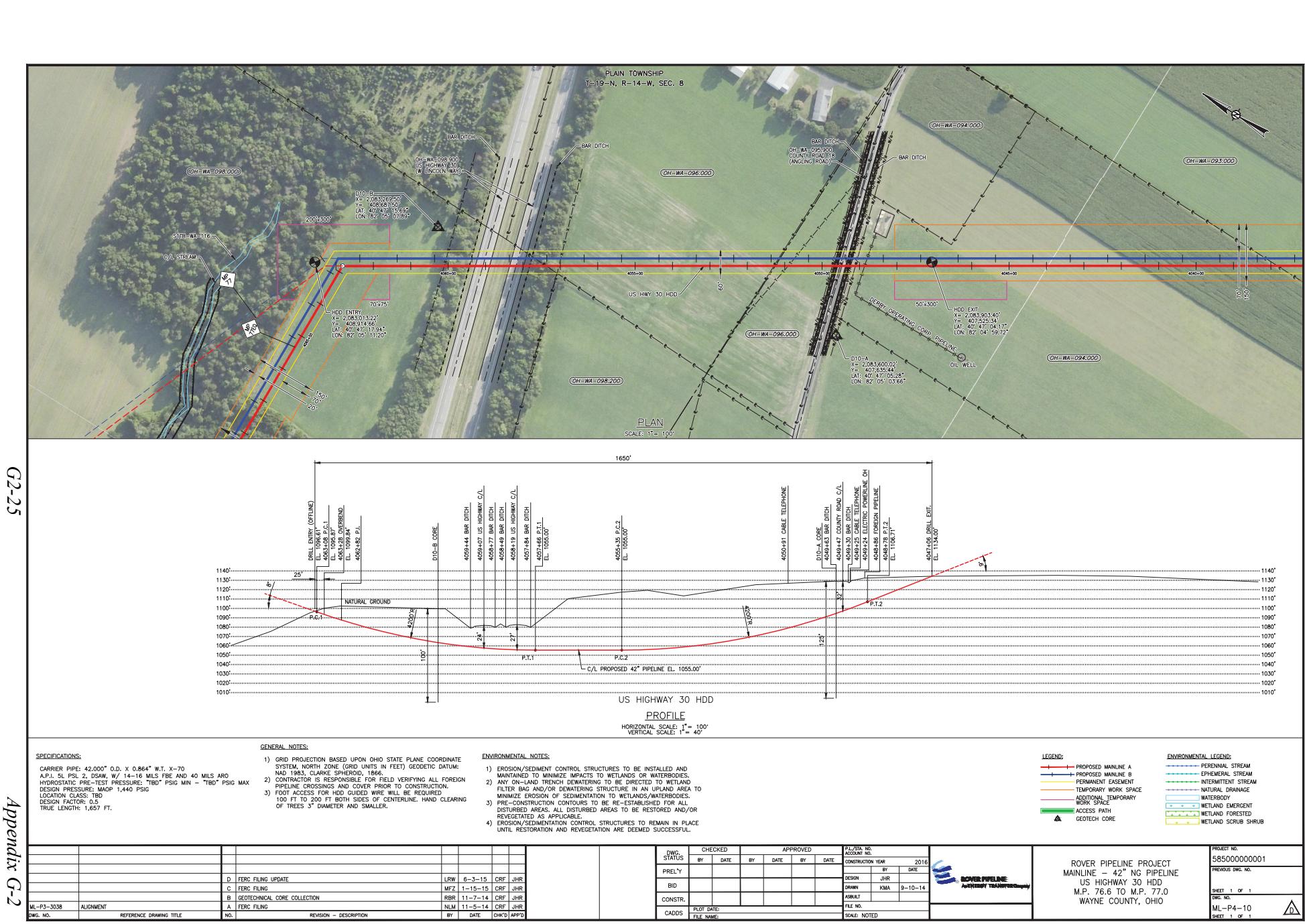
ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
AT HIGHWAY 3 (S COLUMBUS RD) HDD
M.P. 71.6 TO M.P. 71.9
WAYNE COUNTY, OHIO

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

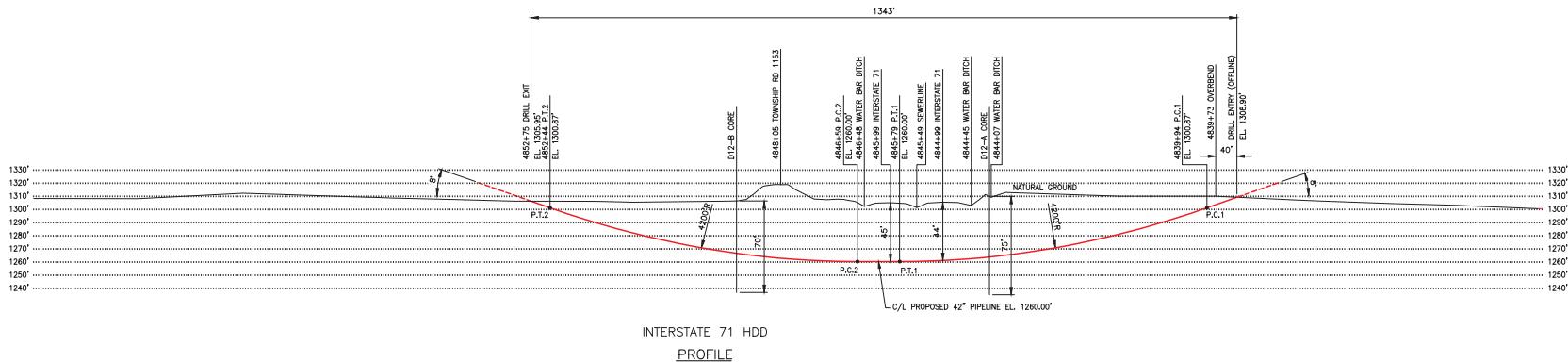
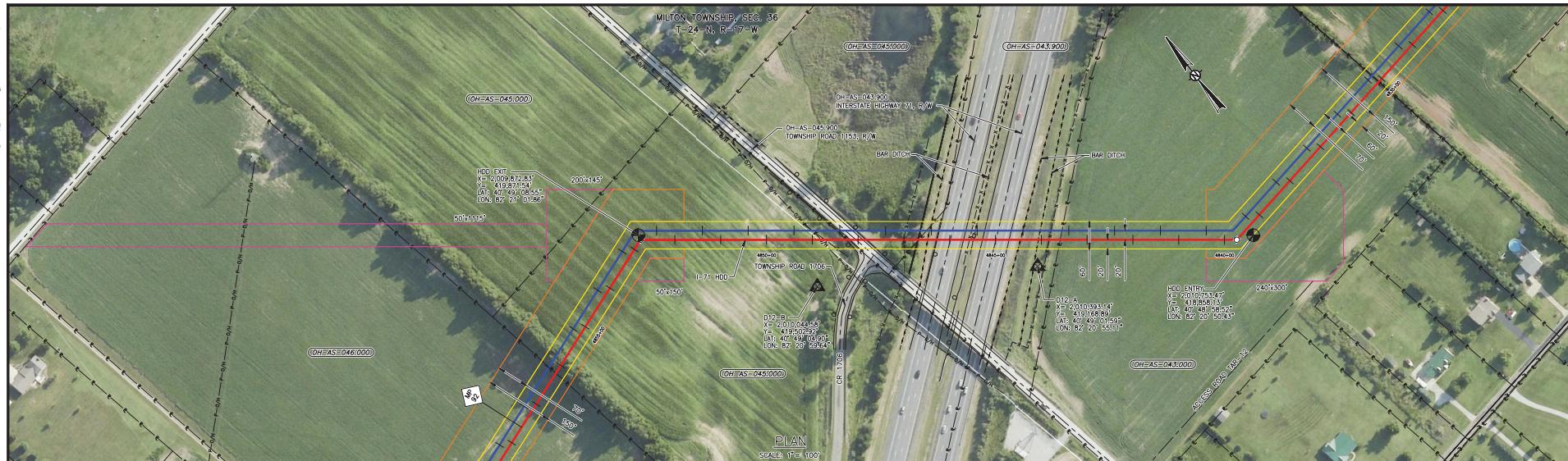
306-05-15 8:58 14138 17 KOMA

G2-25



Appendix G-2

G2-26



SPECIFICATIONS:

CARRIER PIPE: 42,000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAOP 1,440 PSIG
 LOCATION CLASS: B.D.
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,347 FT.

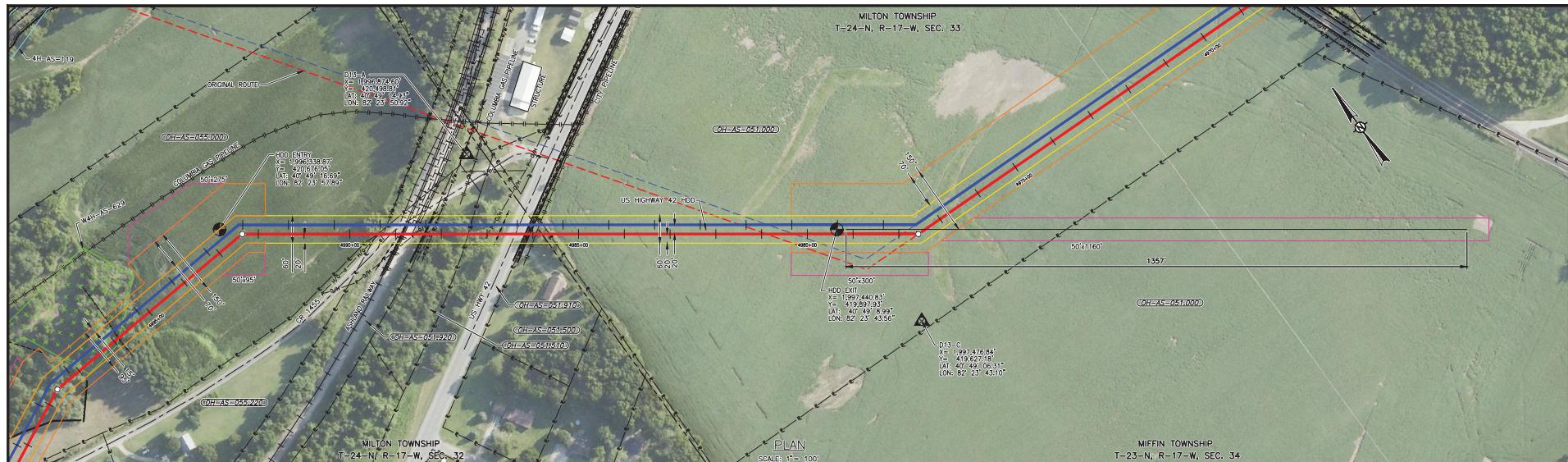
GENERAL NOTES:

- 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- 3) FOOT ACCESS FOR HDD TRUTRACKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

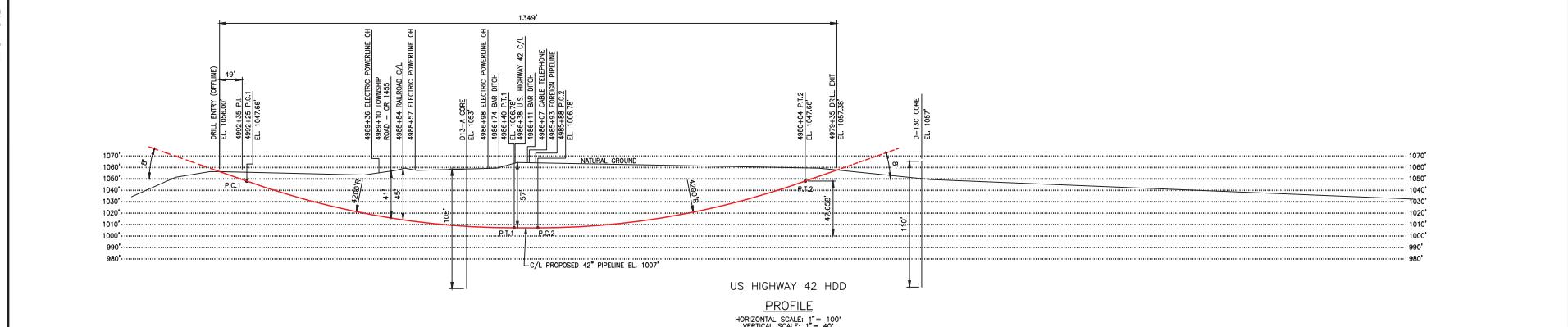
ENVIRONMENTAL NOTES:

- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA MINIMIZING EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION FILTERERS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/O RVEGETATED AS APPLICABLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND BEYOND; VEGETATION ARE DEFINED, SUMFCSSFL

HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 40'



G2-27



SPECIFICATIONS:

CARRIER PIPE: 42,000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAQP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,357 FT.

GENERAL NOTES:

- 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 - 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPE LINES AND OTHER OBSTRUCTIONS TO EASE OF CONSTRUCTION.
 - 3) FOOT ACCESS FOR HOG GUED WIRE WILL BE REQUIRED, 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.
 - 1) EROSION/SILTATION MAINTENANCE
 - 2) ANY ON-LINE FILTER BACTERIA REMOVAL
 - 3) PRE-CONSTRUCTION DISTURBED AREAS REVEGETATED
 - 4) EROSION/SILTATION

ENVIRONMENTAL NOTES

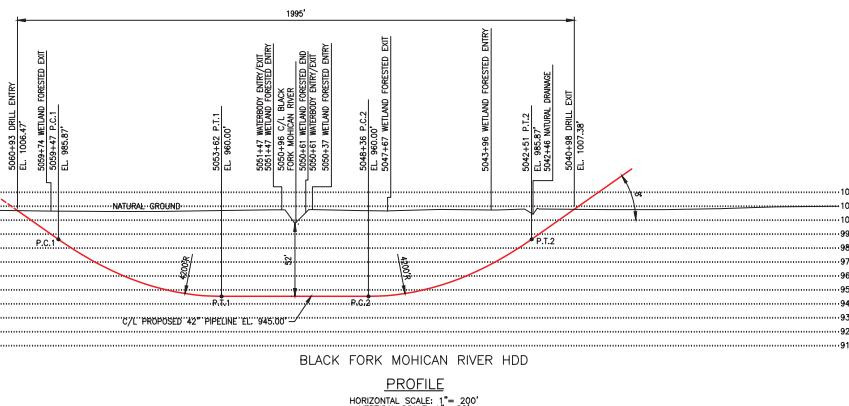
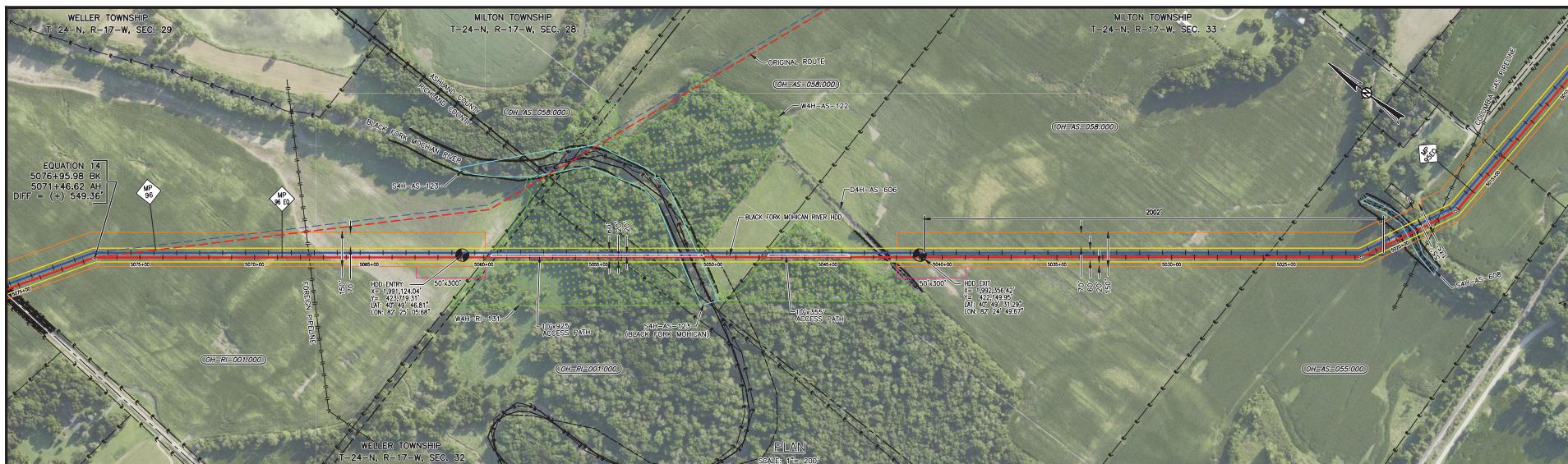
- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVETEATED AS APPLICABLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVETEATION ARE DEEMED SUCCESSFUL.

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 40'

SPECIFICATIONS:		GENERAL NOTES:		ENVIRONMENTAL NOTES:											
CARRIER PIPE: 42"X000" O.D. X 0.864" W.T. X-70 A.P.I. 5L PSI 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX DESIGN PRESSURE: MAOP 1,440 PSIG LOCATION: ROVER, OHIO DESIGN FACTOR: 0.5 TRUE LENGTH: 1,357 FT.		1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRD UNITS IN FEET), GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866. 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN GRID PROJECTIONS AND COORDINATES PRIOR TO CONSTRUCTION. 3) FOOT ACCESS FOR HDD GUIDED WIRE WIRE WILL BE REQUIRED, 100 FT TO 200 FT BOTH SIDES OF CENTERLINE, HAND CLEARING OF TREES 3' DIAMETER AND SMALLER. 4) EROSION/SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.		1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES. 2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND Dewatering STRUCTURE IN THE UPLAND AREA TO MINIMIZE IMPACTS TO WETLANDS/STREAMS. 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE. 4) EROSION/SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.											
DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION – DESCRIPTION	BY	DATE	CHK'D	APPROVED	PA/STA. NO. ACCT NO./CD		CONSTRUCTION YEAR	2016		PROJECT NO.	585000000001	
								DWG.	STATUS					CHECKED	BY
ML-P3-4018	ALIGNMENT		D FERC FILING UPDATE	LRW	6-3-15	CRF	JHR							SHEET 1 OF 1	
ML-P3-4017	ALIGNMENT		C FERC FILING	MFZ	1-15-15	CRF	JHR							DMG. NO.	
			B GEOTECHNICAL CORE COLLECTION	RBR	11-7-14	CRF	JHR							ML-P3-14	
			A FERC FILING	NLM	11-5-14	CRF	JHR							SHEET 1 OF 1	
															

Appendix G-2

G2-28



SPECIFICATIONS:

CARRIER PIPE: 42,000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAOP, 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 2,002 FT.

GENERAL NOTES:

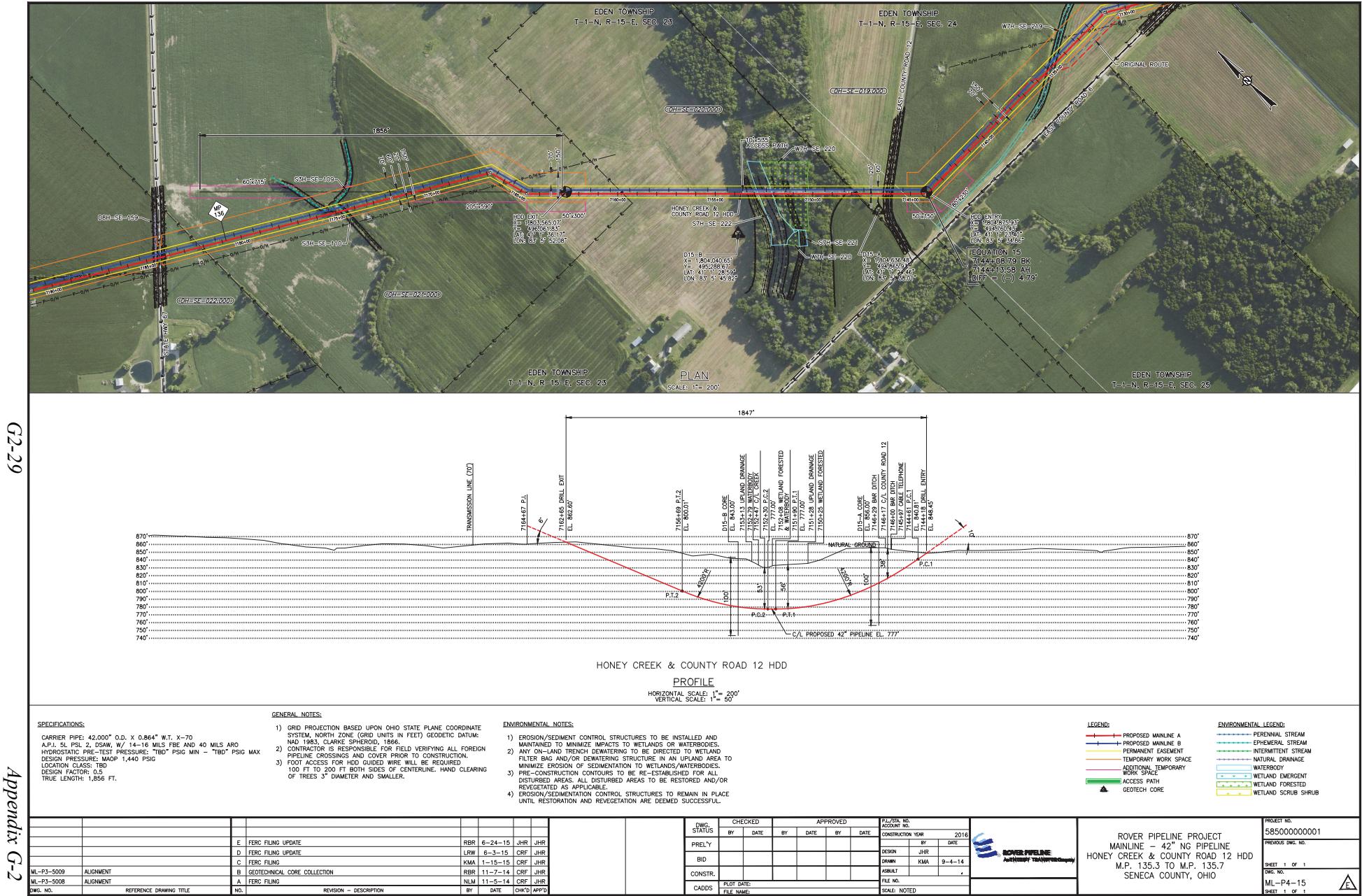
- 1) EROSION/PRODUCTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (RD UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN TRADE CROWNS AND DETERMINING THE PROPER CONSTRUCTION.
3) FOOT ACCESS FOR HDD DRILLED WIRE WILL BE REQUIRED 100 FT TO 200 FT ON BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3' DIAMETER AND SMALLER.

 - 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATEROSES.
2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION/IMPACTS TO WETLANDS/WATERWAYS.
3) PRE-CONSTRUCTION CONTROLS ARE TO BE MAINTAINED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
4) EROSION/SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEFERRED SUCCESSFUL.

ENVIRONMENTAL NOTES:

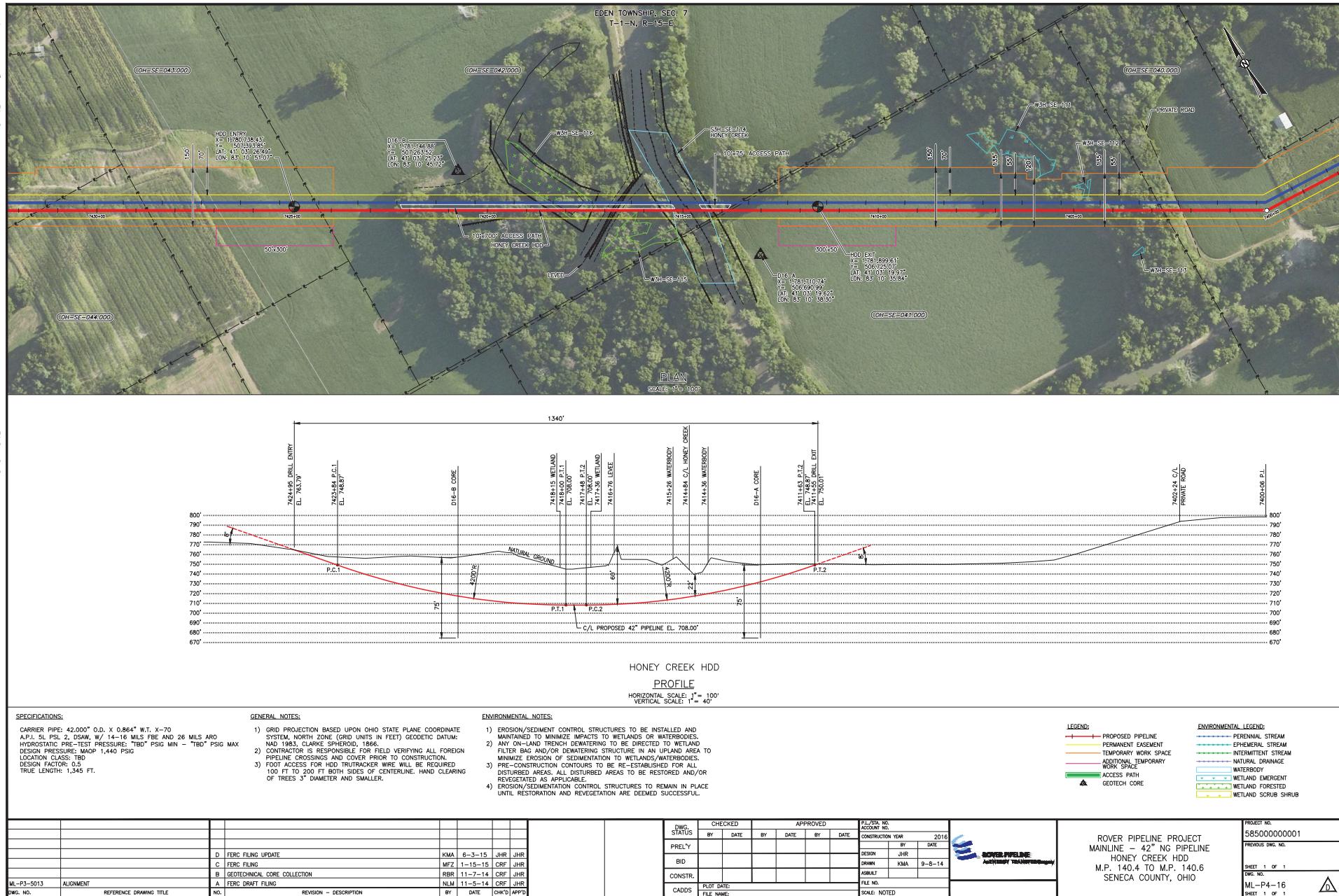
- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND/OR Dewatering STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION AND SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CULTIVATION CULTIVATION TO BE AVOIDED FOR ALL DISTURBED AREAS, ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 - 4) EROSION/SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DETERMINED SUCCESSFUL.

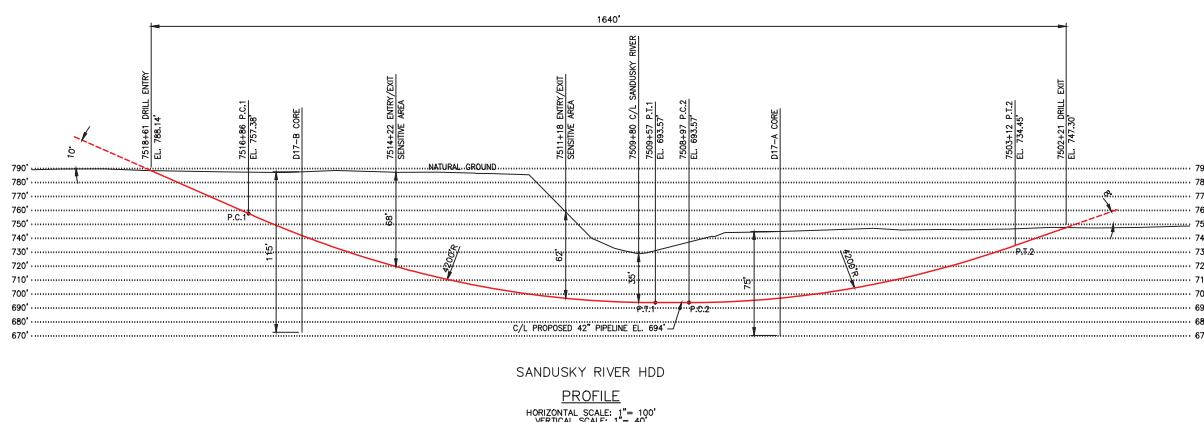
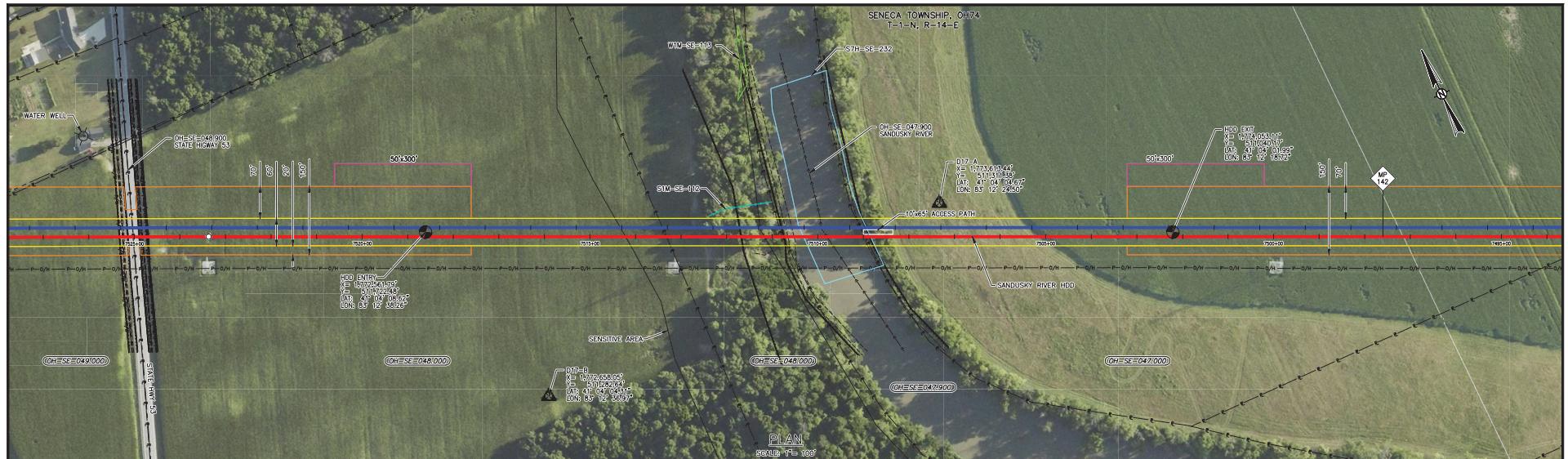
HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 50'



Appendix G-2

G2-30





SPECIFICATIONS: GENERAL NOTES:

CARRIER PIPE: 42,000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAOP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,649 FT.

GENERAL NOTES:

- 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 - 2) CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND VERIFYING ALL FOREIGN SURVEYS AND COVERS PRIOR TO THE CONSTRUCTION.
 - 3) FOOT ACCESS FOR HDD TRUSTRACKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.
 - 1) EROSION CONTROL MAINTAINED.
 - 2) ANY ON-GOING FILTER BACKWASH MINIMIZED.
 - 3) PRE-CONSTRUCTION DISTURBED AREAS REVEGETATED.
 - 4) EROSION CONTROL

ENVIRONMENTAL NOTES

- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA MINIMIZING IMPACTS OF Dewatering ON WETLANDS.
 - 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL THE CONSTRUCTION PERIOD IS DEFERRED SUCCESSFULLY.

UNIL RESTORATION AND REVEGETATION ARE DEEMED					
	E. FERC FILING UPDATE	RBR	6-24-15	JHR	JHR
	D. FERC FILING UPDATE	KMA	6-3-15	JHR	JHR
	C. FERC FILING	MFZ	1-15-15	CRF	JHR
	B. GEOTECHNICAL CORE COLLECTION	RBR	11-7-14	CRF	JHR
ML-P3-5015	ALIGNMENT	A. FERC DRAFT FILING	NLM	11-5-14	CRF JHR
DRW. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE OK'D APPD

ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
SANDUSKY RIVER HDD
M.P. 142.1 TO M.P. 142.4
SENECA COUNTY, OHIO

The legend consists of five entries, each with a colored line icon followed by its name:

- PERENNIAL STREAM (blue line)
- EPHEMERAL STREAM (red line)
- INTERMITTENT STREAM (green line)
- NATURAL DRAINAGE (purple line)
- WATERBODY (cyan line)

Below these are three additional entries:

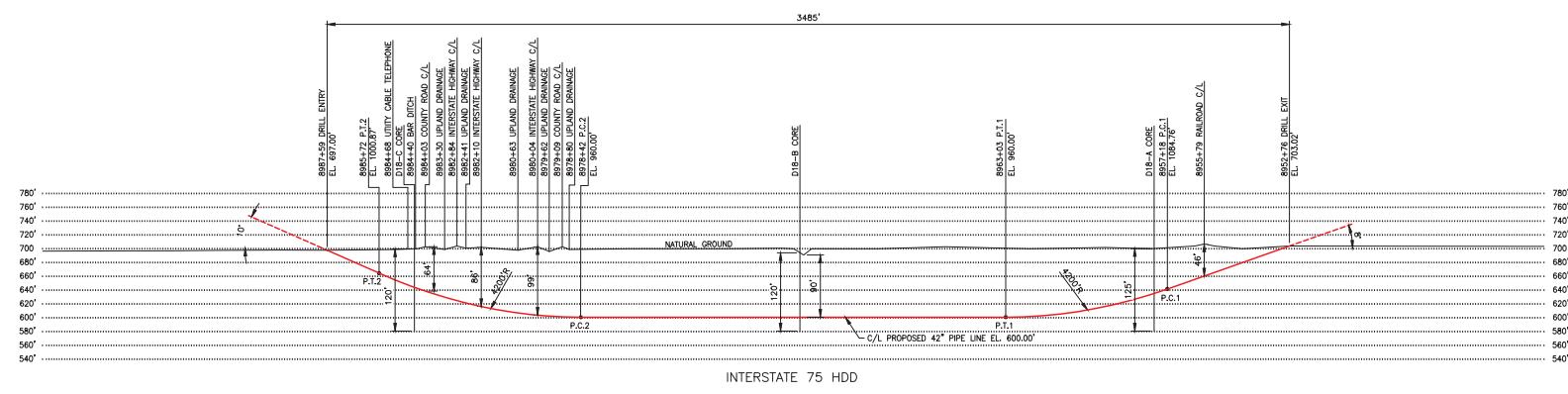
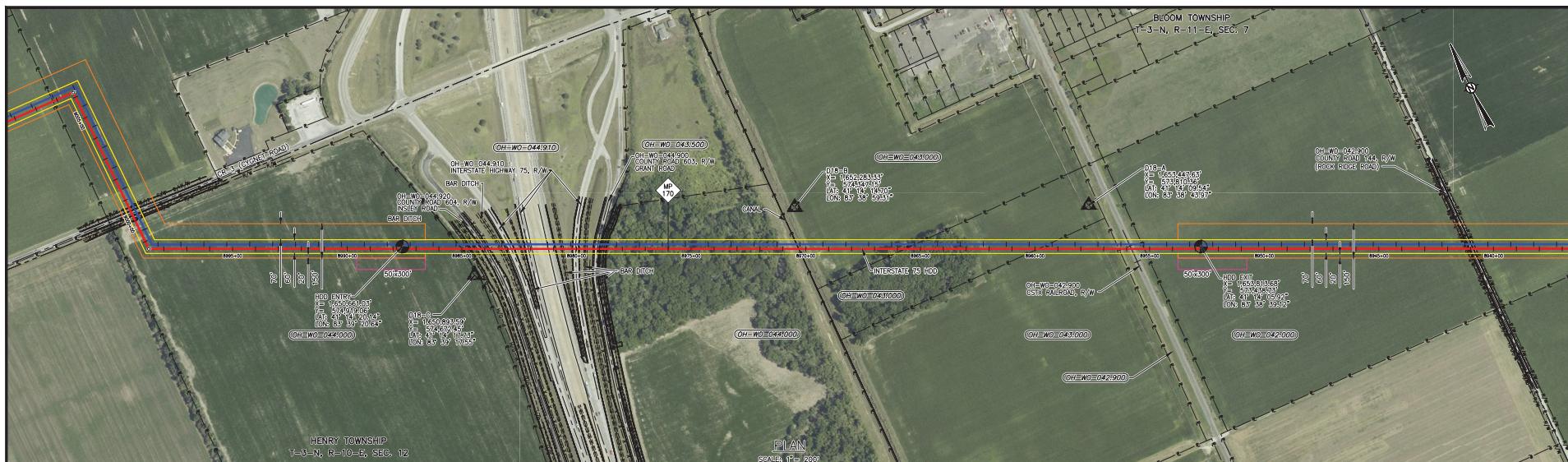
- WETLAND EMERGENT (blue line with downward arrow)
- WETLAND FORESTED (green line with star)
- WETLAND SCRUB SHRUB (yellow line with asterisk)

PROJECT NO.
5250000000

06-23-15 11:57 14139 17 RSR

Appendix G-2

G2-32



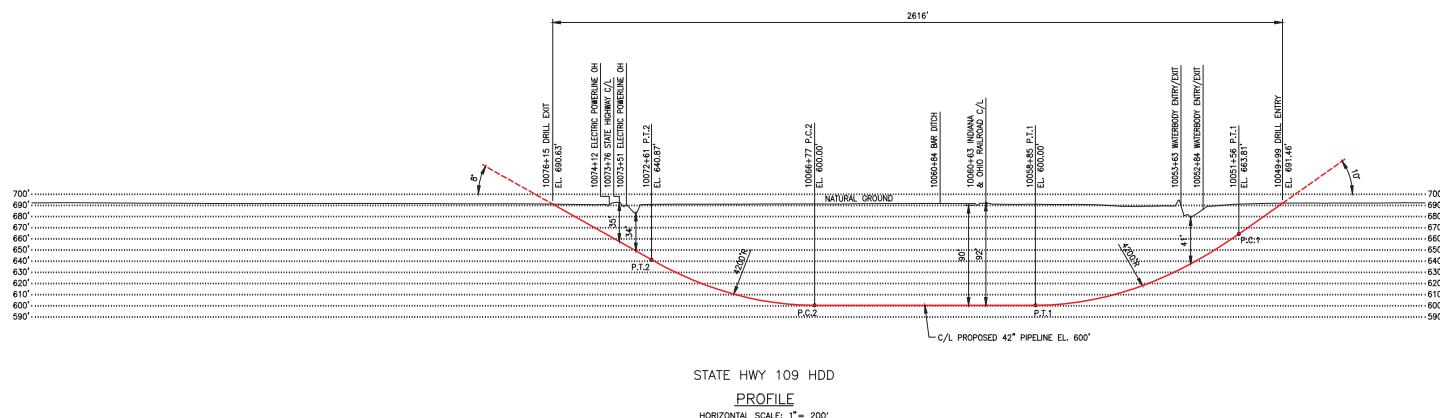
SPECIFICATIONS:

CURRENT PIPE: 42" OD X 0.864" WT. X-70
API-5L PSL 2, 25AW, W/ 14-16 MILS FBE AND 26 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAOP 1,440 PSIG
DESIGN TEMPERATURE: 70°F
DESIGN FACTOR: 0.85
TRUE LENGTH: 3,497 FT.

GENERAL NOTES:

ENVIRONMENTAL NOTES:

EWS. NO.	ALIGNMENT	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY DATE	CADD'S	PLOT DATE:	FILE NAME:	BY DATE	CHECKED BY DATE	APPROVED BY DATE	FL/STA. NO. ACCOUNT NO.	CONSTRUCTION YEAR	14138	PROJECT NO. 585000000001	
ML-P3-5043	D	FERC FILING UPDATE		KMA	6-3-15	JHR	JHR									PREVIOUS DWG. NO.
	C	FERC FILING		MFTZ	1-15-15	CRF	JHR									SHEET 1 OF 1
	B	GEOTECHNICAL CORE COLLECTION		GJD	11-7-14	CRF	JHR									DWG. NO.
	A	FERC DRAFT FILING		NLM	11-5-14	CRF	JHR									ML-P4-18
																SHEET 1 OF 1



GENERAL NOTES:

SPECIFICATIONS:

CARRIER PIPE: 42,000" O.D. X .864" W.T. X-70
A.P.I. 5L PSL 2, DSWW, W/ 14-16 MILS FBE AND 26 MILS ARO
HYDROSTATIC TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
TEST PRESSURE: "TBD" PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 2,628 FT.

- 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM NORTH ZONE (GRID 18 S IN FEET) GEODETIC DATUM: NAD 1983 HARN SPHEROID, 1866 ELLIPSOID.
- 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- 3) FOOT ACCESS FOR HDD TRUCK/REELER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3' DIAMETER AND SMALLER.

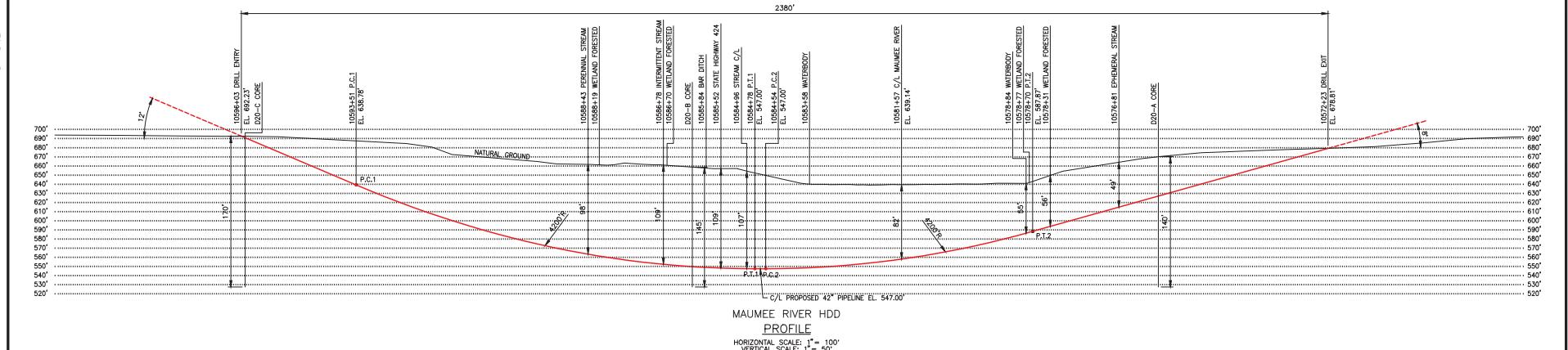
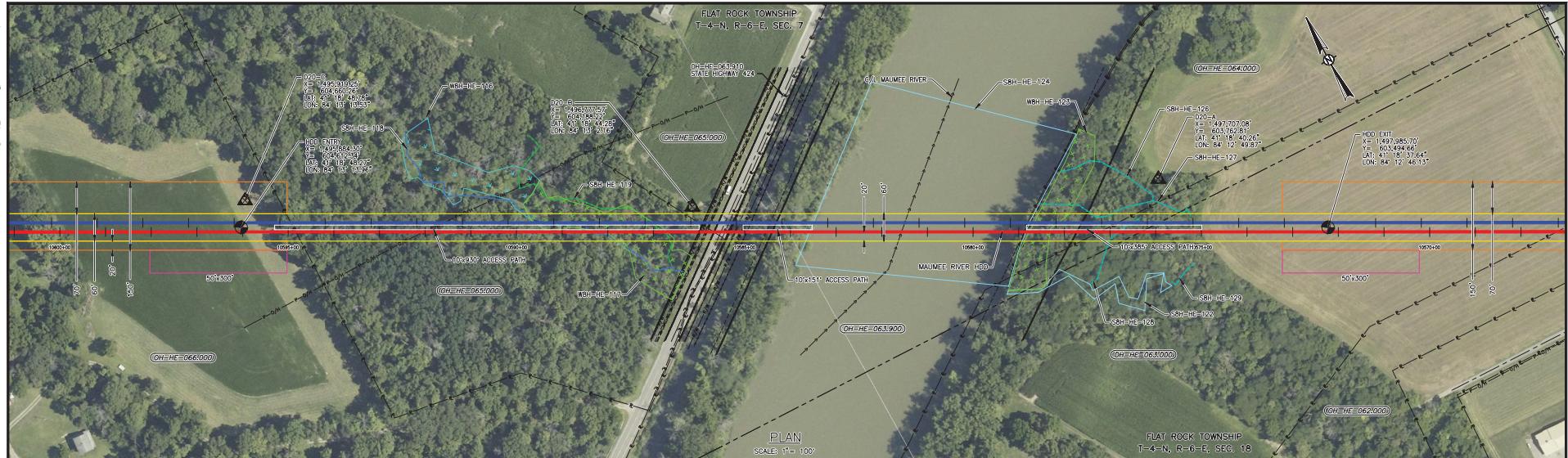
ENVIRONMENTAL NOTES:

- 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 - 2) ANY ON-LAND TRENCH Dewatering TO BE DIRECTED TO WETLAND FILTER BAG AND/OR Dewatering STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 - 3) PRE-CONSTRUCTION PLANTINGS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVETTED AS APPLICABLE.
 - 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL REFORESTATION AND REVETRATION ARE DEFINITELY SUCCESSFUL.

HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 50'

Appendix G-2

G2-34



EWS NO.	ALIGNMENT	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY DATE	CHK'D APP'D	P.L./STA. NO.	CHECKED BY DATE	APPROVED BY DATE	ACCOUNT NO.	CONSTRUCTION YEAR	2016		PROJECT NO.	585000000001		
ML-P3-6031	D	FERC FILING UPDATE	KMA	6-3-15	JHR	JHR										PREVIOUS EWS NO.	14138
	C	FERC FILING	KMA	1-15-15	CRF	JHR											
	B	GEOTECHNICAL CORE COLLECTION	GJD	11-7-14	CRF	JHR										Sheet 1 of 1	
	A	FERC DRAFT FILING	MFTZ	11-5-14	CRF	JHR										DES. NO.	
																ML-P4-20	
																Sheet 1 of 1	